

Total EVA 1010 VN 3 Ethylene Vinyl Acetate Copolymer - Blown Film

Category : Polymer , Film , Thermoplastic , Ethylene Vinyl Acetate , Ethylene Vinyl Acetate Copolymer (EVA), Film Grade

Material Notes:

EVA 1010 VN 3 is made by a high pressure tubular process. Grade for films with high transparency and high mechanical properties.

Contains an antioxidant. Application examples: Stretch film, food packaging. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-EVA-1010-VN-3-Ethylene-Vinyl-Acetate-Copolymer-Blown-Film.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.929 g/cc	0.929 g/cc	ISO 1183
Vinyl Acetate Content	9.0 %	9.0 %	
Thickness	40.0 microns	1.57 mil	for samples tested on this data sheet
	25.0 - 300 microns	0.984 - 11.8 mil	possible range, depending on extrusion conditions
Melt Flow	1.5 g/10 min	1.5 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	7.80 MPa	1130 psi	ISO 527-3
Film Tensile Strength at Yield, TD	6.50 MPa	943 psi	ISO 527-3
Film Elongation at Break, MD	370 %	370 %	ISO 527-3
Film Elongation at Break, TD	600 %	600 %	ISO 527-3
Modulus of Elasticity	0.110 GPa	16.0 ksi	ISO 527-2
Elmendorf Tear Strength, MD	3.30 g/micron	83.8 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	3.70 g/micron	94.0 g/mil	ISO 6383-2
Dart Drop Test	480 g	1.06 lb	ISO 7765-1
Film Tensile Strength at Break, MD	31.0 MPa	4500 psi	ISO 527-3
Film Tensile Strength at Break, TD	28.0 MPa	4060 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	98.0 °C	208 °F	ISO 11357
Vicat Softening Point	82.0 °C	180 °F	ISO 306

Thermal Properties	Metric	English	Comments
Optical Properties	Metric	English	Comments
Haze	3.5 %	3.5 %	ISO 14782

Processing Properties	Metric	English	Comments
Processing Temperature	150 - 180 °C	302 - 356 °F	

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